

COTTON CHATS

DRAPER COMPANY, HOPEDALE, MASS.



NO. 77. JANUARY, 1909.

RESULTS COUNT.

The Cordis Mills of Millbury, Mass., weaving ticks, replaced 212 common looms which were operated by 52 weavers with 204 Northrop Looms, which are operated by only 13 weavers and are producing more and better cloth.

NORTHROP LOOMS

IN THE UNITED STATES

INCLUDING ORDERS TO JANUARY 1, 1909.

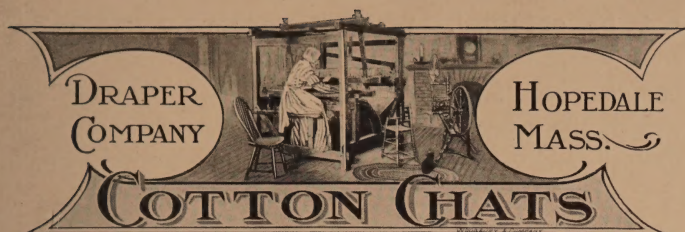
Name.	Location.	Quantity.
Abbeville Cotton Mills,	Abbeville, S. C.	940
Acushnet Mill Corp.,	New Bedford, Mass.	417
Adams Mfg. Company,	No. Scituate, R. I.	24
Aiken Mfg. Company,	Bath, S. C.	38
Aldrich Mfg. Company,	Moosup, Conn.	200
American Linen Company,	Fall River, Mass.	100
American Spinning Company,	Greenville, S. C.	772
American Textile Company,	Cartersville, Ga.	802
Amoskeag Mfg. Company,	Manchester, N. H.	2751
Anderson Cotton Mills,	Anderson, S. C.	724
Androscoggin Mills,	Lewiston, Maine.	721
Appleton Company,	Lowell, Mass.	623
Aragon Cotton Mills,	Rock Hill, S. C.	281
Aragon Mills,	Aragon, Ga.	170
Arcadia Mills,	Spartanburg, S. C.	344
Arlington Mills,	Lawrence, Mass.	240
Asheville Cotton Mills,	Asheville, N. C.	30
Ashland Company,	Ashland, R. I.	21
Atlantic Cotton Mills,	Lawrence, Mass.	569
Attawaugan Mills,	Killingly, Conn.	48
Augusta Factory,	Augusta, Ga.	105
Aurora Cotton Mills,	Aurora, Ills.	96
Avondale Mills,	Birmingham, Ala.	942
Bachmann, L., & Company,	Uxbridge, Mass.	66
Bancroft, Joseph, & Sons Co.,	Wilmington, Del.	15
Barber-Coleman Co.,	Boston, Mass.	1
Barbour Cotton Mills,	Eufaula, Ala.	40
Barker Cotton Mills Co.,	Mobile, Ala.	325
Barker Mills,	Auburn, Maine.	16
Bates Mfg. Co.,	Lewiston, Maine.	330
Beaumont Mfg. Co.,	Spartanburg, S. C.	252
Belton Mills,	Belton, S. C.	1251
Bemis Bros. Bag Co.,	Jackson, Tenn.	1570
Bennett Spinning Co.,	New Bedford, Mass.	1
Berkeley Company,	Berkeley, R. I.	256
Bernon Mills,	Georgiaville, R. I.	608
Blackstone Mfg. Co.,	Blackstone, Mass.	1184
Boott Mills,	Lowell, Mass.	1310
Borden, Richard, Mfg. Co.,	Fall River, Mass.	1276
Boston Duck Company,	Bondsville, Mass.	102
Boston Mfg. Co.,	Waltham, Mass.	414
Botany Worsted Mills,	Passaic, N. J.	30
Bourne Mills,	Fall River, Mass.	2060
Bradford Durfee Textile School,	Fall River, Mass.	5
Brandon Mills,	Greenville, S. C.	992
Bristol Mfg. Corp.,	New Bedford, Mass.	1
Brogan Cotton Mills,	Anderson, S. C.	366
Brookford Mills,	Brookford, N. C.	162
Brookside Mills,	Knoxville, Tenn.	790

Name.	Location.	Quantity.
Brower & Love Bros.,	Indianapolis, Ind.	102
Burgess Mills,	Pawtucket, R. I.	1294
Burnham, A. H., Glasgow Mill,	Philadelphia, Pa.	8
Cabarrus Cotton Mills,	Concord, N. C.	542
Cabot Mfg. Co.,	Brunswick, Maine.	204
Calhoun Mills,	Calhoun Falls, S. C.	400
Cannon Mfg. Co.,	Concord, N. C.	426
Cannon Mfg. Co.,	Kannapolis, N. C.	60
Capital City Mills,	Columbia, S. C.	240
Carhartt Cotton Mills, Hamilton,	Rock Hill, S. C.	1
Carolina Mills,	Greenville, S. C.	356
Chadwick-Hoskins Co.,	Charlotte, N. C.	1982
Cherokee Falls Mfg. Co.,	Cherokee Falls, S. C.	320
Chicopee Mfg. Co.,	Chicopee Falls, Mass.	126
Chiquola Mfg. Co.,	Honea Path, S. C.	1000
Clemson College,	Calhoun Station, S. C.	2
Clifton Mfg. Co.,	Clifton, S. C.	1000
Cocheo Mfg. Co.,	Dover, N. H.	1215
Columbia Cotton Mills Co.,	Columbia, Tenn.	102
Columbia Mfg. Co.,	Ramseur, N. C.	69
Columbian Mfg. Co.,	Greenville, N. H.	172
Columbus Mfg. Co.,	Columbus, Ga.	800
Columbus School,	Columbus, Ga.	1
Con. Cotton Duck Co., Stark Mills,	Manchester, N. H.	190
Continental Mills,	Lewiston, Maine.	611
Converse Co., D. E.,	Glendale, S. C.	550
Cordis Mills,	Millbury, Mass.	204
Coventry Company,	Anthony, R. I.	2
Covington Mills,	Covington, Ga.	20
Cowikee Cotton Mills,	Eufaula, Ala.	32
Cowpens Mfg. Co.,	Cowpens, S. C.	142
Crompton Co.,	Crompton, R. I.	2
Crown Cotton Mills,	Dalton, Ga.	1
Dallas Mfg. Co.,	Huntsville, Ala.	1211
Dan River Cotton Mills,	Danville, Va.	916
Dana Warp Mills,	Westbrook, Maine.	40
Danielson Cotton Mills,	Danielson, Ct.	140
Darlington Mfg. Co.,	Darlington, S. C.	592
Draper, Gen. W. F.,	Hopedale, Mass.	4
Drayton Mills,	Spartanburg, S. C.	502
Dunbarton Flax Spinning Co.,	Greenwich, N. Y.	1
Durham Cotton Mfg. Co.,	West Durham, N. C.	300
Dwight Mfg. Co.,	Chicopee, Mass.	681
Dwight Mfg. Co.,	Alabama City, Ala.	300
Eagle Mills,	Woonsocket, R. I.	8
Eagle & Phenix Mills,	Columbus, Ga.	328
Easley Cotton Mills,	Easley, S. C.	1020
Eastman Cotton Mills,	Eastman, Ga.	150
Echota Cotton Mills,	Calhoun, Ga.	120
Edwards Mfg. Co.,	Augusta, Maine.	809
Ella Mfg. Co.,	Shelby, N. C.	126
Eno Cotton Mills,	Hillsboro, N. C.	232
Erwin Cotton Mills,	Cooleemee, N. C.	1296
Erwin Cotton Mills,	Duke, N. C.	1024
Erwin Cotton Mills,	West Durham, N. C.	877
Everett Mills,	Lawrence, Mass.	1468
Exeter Mfg. Co.,	Exeter, N. H.	106
Exposition Cotton Mills,	Atlanta, Ga.	350
Fairfield Cotton Mills,	Winnboro, S. C.	190
Falls Company,	Norwich, Conn.	61
Farnum, John, & Co.,	Lancaster, Pa.	12
Farr Alpaca Co.,	Holyoke, Mass.	8
Farwell Mills,	Lisbon, Maine.	132
Firth, William,	Boston, Mass.	1
Florence Mills,	Forest City, N. C.	200
Fountain Inn Mfg. Co.,	Fountain Inn, S. C.	400
Franklin Mills,	Greers, S. C.	24
Fulton Bag & Cotton Mills Co.,	Atlanta, Ga.	1591
Gaffney Mfg. Co.,	Gaffney, S. C.	1562
Gainesville Cotton Mills,	Gainesville, Ga.	1220
Gary, James S., & Sons,	Alborton, Md.	88
Georgia School of Technology,	Atlanta, Ga.	8
Gibson Mfg. Co.,	Concord, N. C.	6
Glenn-Lowry Mfg. Co.,	Whitmire, S. C.	899
Glen Raven Cotton Mills,	Burlington, N. C.	100
Glenwood Cotton Mills,	Easley, S. C.	116
Gosnold Mills Corp.,	New Bedford, Mass.	660
Granby Cotton Mills,	Columbia, S. C.	1014
Granite Linen Co.,	Wortendyke, N. J.	24
Granite Mills,	Fall River, Mass.	1
Graniteville Mfg. Co.	Graniteville, S. C.	592
Graniteville Mfg. Co.	Vaocluse, S. C.	362
Great Falls Mfg. Co.	Somersworth, N. H.	638
Great Falls Mfg. Co.	Rockingham, N. C.	172
Greenwood Cotton Mills,	Greenwood, S. C.	372
Grendel Mills,	Greenwood, S. C.	784
Grinnell Mfg. Corp.,	New Bedford, Mass.	341
Grosvenor-Dale Co.,	No. Grosvenor-Dale, Conn.	3619
Hamilton Mfg. Co.,	Lowell, Mass.	372
Hamlet Textile Co.,	Woonsocket, R. I.	56

Name.	Location.	Quantity.
Hamrick Mills,	Gaffney, S. C.	260
Harmony Grove Mills,	Harmony Grove, Ga.	396
Hartsville Cotton Mills,	Hartsville, S. C.	780
Hathaway Mfg. Co.,	New Bedford, Mass.	401
Henderson Cotton Mills,	Henderson, N. C.	84
Henrietta Mills,	Henrietta, N. C.	251
High Shoals Company,	High Shoals, N. C.	64
Hill Mfg. Co.,	Lewiston, Maine.	142
Home Cotton Mills,	St. Louis, Mo.	698
Hope Company, Phenix Mill,	Hope, R. I.	800
Hope Company, Hope Mill,	Hope, R. I.	468
Indian Head Mills of Ala.,	Cordova, Ala.	416
Jackson Company,	Nashua, N. H.	533
Jackson Mills,	Iva, S. C.	640
Johnson & Johnson,	New Brunswick, N. J.	655
Jonesville Mfg. Co.,	Jonesville, S. C.	240
Kansas City Cotton Mills Co.,	Kansas City, Mo.	236
Keasbey & Mattison Co.,	Ambler, Pa.	10
Kesler Mfg. Co.,	Salisbury, N. C.	306
Kincaid Mfg. Co.,	Griffin, Ga.	100
King, John P., Mfg. Co.,	Augusta, Ga.	1600
King Philip Mills,	Fall River, Mass.	28
Knight, B. B. & R.,	Centreville, R. I.	616
Lancaster Mills,	Clinton, Mass.	466
Lanett Cotton Mills,	West Point, Ga.	992
Laurens Cotton Mills,	Laurens, S. C.	1184
Lawrence Duck Co.,	Lawrence, Mass.	38
Lawrence Industrial School,	Lawrence, Mass.	1
Limestone Mills,	Gaffney, S. C.	640
Lockhart Mills,	Lockhart, S. C.	1604
Lockwood Company,	Waterville, Maine.	1779
Lois Cotton Mills,	Douglasville, Ga.	250
Lonsdale Company,	Lonsdale, R. I.	2157
Loray Mills,	Gastonia, N. C.	1690
Lorraine Mfg. Co.,	Saylesville, R. I.	2
Lowell Textile Co.,	Lowell, Mass.	2
Lowell Textile School,	Lowell, Mass.	3
Lydia Cotton Mills,	Clinton, S. C.	50
Lynchburg Cotton Mills,	Lynchburg, Va.	1
Manville Co.,	Woonsocket, R. I.	1497
Mass. Inst. of Tech.,	Boston, Mass.	1
Massachusetts Cotton Mills,	Lowell, Mass.	1128
Massachusetts Mills in Georgia,	Lindale, Ga.	2341
Mays Landing Water Power Co.,	Mays Landing, N. J.	461
Mecklenburg Mfg. Co.	Charlotte, N. C.	300
Meredith Linen Co.,	Meredith, N. H.	42
Meridian Cotton Mills,	Meridian, Miss.	148
Merrimack Mfg. Co.,	Huntsville, Ala.	2219
Merrimack Mfg. Co.,	Lowell, Mass.	666
Methuen Company,	Methuen, Mass.	138
Mills Mfg. Co.,	Greenville, S. C.	560
Millville Mfg. Co.,	Millville, N. J.	1057
Miss. Agri. College,	Agri. College, Miss.	2
Mollohon Mfg. Co.,	Newberry, S. C.	416
Monadnock Mills,	Claremont, N. H.	24
Monaghan Mills,	Greenville, S. C.	1262
Monarch Cotton Mills,	Union, S. C.	1000
Nantucket Mills,	Spray, N. C.	32
Nashua Mfg. Co.,	Nashua, N. H.	470
Naumkeag Steam Cotton Co.,	Salem, Mass.	835
Neuse River Mills,	Raleigh, N. C.	150
New Bedford Textile School,	New Bedford, Mass.	2
Newmarket Mfg. Co.,	Newmarket, N. H.	371
New York Mills,	New York Mills, N. Y.	172
Nightingale Mills,	Putnam, Conn.	14
Ninety Six Cotton Mills,	Ninety Six, S. C.	510
Nockege Mills,	Fitchburg, Mass.	13
Nokomis Cotton Mills,	Lexington, N. C.	372
No. Andover Silk Mill,	No. Andover, Mass.	4
N. C. College of Agri. & Mech. Arts,	West Raleigh, N. C.	4
Olympia Cotton Mills,	Columbia, S. C.	2308
Orangeburg Mfg. Co.,	Orangeburg, S. C.	392
Orr Cotton Mills,	Anderson, S. C.	1504
Ossipee Cotton Mills,	Elon College, N. C.	168
Otis Company,	Ware, Mass.	17
Pacific Mills,	Lawrence, Mass.	2590
Pacolet Mfg. Co.,	Pacolet, S. C.	1164
Pacolet Mfg. Co.,	Gainesville, Ga.	1764
Palmer Mills,	Three Rivers, Mass.	112
Palmetto Cotton Mills,	Palmetto, Ga.	80
Parkhill Mfg. Co.	Fitchburg, Mass.	13
Park Woolen Mills,	Rossville, Ga.	10
Patterson, S. F.,	Ilchester, Md.	1
Patterson Mfg. Co.,	Kannapolis, N. C.	400
Peabody Mills,	Newburyport, Mass.	16
Pell City Mfg. Co.,	Pell City, Ala.	720
Pelzer Mfg. Co.,	Pelzer, S. C.	2876
Pemberton Company,	Lawrence, Mass.	51
Pepperell Mfg. Co., Laconia Div.,	Biddeford, Maine.	1940
Pepperell Mfg. Co., Pepperell Div.,	Biddeford, Maine.	1256

Name.	Location.	Quantity.
Philadelphia Textile School,	Philadelphia, Pa.	2
Pickens Mill,	Pickens, S. C.	432
Piedmont Mfg. Co.,	Piedmont, S. C.	1532
Pilot Cotton Mills Co.,	Raleigh, N. C.	150
Pocasset Mills,	Fall River, Mass.	223
Poe, F. W., Mfg. Co.,	Greenville, S. C.	764
Portland Silk Co.,	Middletown, Conn.	1
Potomska Mills Corp.,	New Bedford, Mass.	2
Putnam Mfg. Co.,	Putnam, Conn.	252
Queen City Cotton Co.,	Burlington, Vt.	1472
Quidnick Mfg. Co.,	Quidnick, R. I.	17
Quinebaug Company,	Danielson, Conn.	700
Rawitzer, S., & Co.,	Hope Valley, R. I.	2
Reedy River Mfg. Co.,	Greenville, S. C.	153
Revolution Cotton Mills,	Greensboro, N. C.	820
Rhode Island School of Design,	Providence, R. I.	1
Riverside Cotton Mills,	Danville, Va.	290
Roanoke Mills Co.,	Roanoke Rapids, N. C.	260
Rosemary Mfg. Co.,	Roanoke Rapids, N. C.	520
Royal Bag & Yarn Mfg. Co.,	Charleston, S. C.	94
Royall Cotton Mills,	Wake Forest, N. C.	186
Rubdry Towel Co.,	Providence, R. I.	2
Salisbury Cotton Mills,	Salisbury, N. C.	216
Salmon Falls Mfg. Co.,	Salmon Falls, N. H.	1
Salt's Textile Mfg. Co.,	Bridgeport, Conn.	18
Samoset Company,	Valley Falls, R. I.	80
Saxon Mills,	Spartanburg, S. C.	700
Scottdale Mills,	Atlanta, Ga.	350
Shaw, L. L., & Co. (Royal River Mill)	Yarmouth, Maine.	16
Shetucket Company,	Norwich, Conn.	70
Simpsonville Cotton Mills,	Simpsonville, S. C.	200
Slater Cotton Co.,	Pawtucket, R. I.	16
Slater, S., & Sons, Cotton Mill,	Webster, Mass.	311
Slater, S., & Sons, Woolen Mill,	Webster, Mass.	8
Smith, J. E., Cotton Mfg. Co.,	Thomson, Ga.	28
Southwark Mills,	Philadelphia, Pa.	4
Spartan Mills,	Spartanburg, S. C.	2590
Spaulding Cotton Mills,	Griffin, Ga.	2
Steele's Mills,	Rockingham, N. C.	600
Stevens Mfg. Co.,	Fall River, Mass.	1
Stevens & Co.,	Haverhill, Mass.	1
Stirling Silk Mfg. Co.,	Stirling, N. J.	2
Stonewall Cotton Mills,	Stonewall, Miss.	161
Strickland Cotton Mills,	Valdosta, Ga.	20
Suncook Mills,	Suncook, N. H.,	89
Susquehanna Silk Mills,	Sunbury, Pa.	2
Swift Mfg. Co.,	Columbus, Ga.	1
Tarboro Cotton Factory,	Tarboro, N. C.	200
Texas Textile School,	College Station, Texas.	2
Textile Mills Corp., Maginnis Br.,	New Orleans, La.	200
Textile Mills, Corp., Lane Branch,	New Orleans, La.	514
Textile Mills Corp., Mississippi Br.,	Wesson, Miss.	49
Thistle Mills Co.,	Ilchester, Md.	4
Thomaston Cotton Mills,	Thomaston, Ga.	100
Thompson, James, & Co.,	Valley Falls, N. Y.	12
Thorndike Company,	Thorndike, Mass.	360
Totokett Mills Co.,	Norwich, Conn.	218
Toxaway Mills,	Anderson, S. C.	484
Tremont & Suffolk Mills,	Lowell, Mass.	1976
Trion Mfg. Co.,	Trion, Ga.	1243
Tucapau Mills,	Tucapau, S. C.	1669
Uncasville Mfg. Co.,	Versailles, Conn.	20
Union-Buffalo Mills Co.,	Union, S. C.	2130
U. S. Bunting Co.,	Lowell, Mass.	64
United States Cotton Co.,	Central Falls, R. I.	1600
Utica Cotton Co.,	Capron, N. Y.	1
Utica Steam & Mohawk Valley C. M.,	Utica, N. Y.	412
Vermont Mills, Inc.,	Bessemer City, N. C.	96
Victor Mfg. Co.,	Greers, S. C.	1428
Victory Mfg. Co.,	Fayetteville, N. C.	400
Wachusett Mills,	Worcester, Mass.	1
Walhalla Cotton Mills,	Walhalla, S. C.	120
Wamsutta Mills,	New Bedford, Mass.	201
Ware Shoals Mfg. Co.,	Ware Shoals, S. C.	1400
Warren Cotton Mills,	West Warren, Mass.	65
Warren Mfg. Co.,	Warrenville, S. C.	1000
Waterhead Mills,	Lowell, Mass.	7
Whitaker, Wm., & Sons,	Philadelphia, Pa.	1
White, N. D., & Son,	Winchendon Springs, Mass.	21
Whitman Mills,	New Bedford, Mass.	842
Whitney Mfg. Co.,	Whitney, S. C.	652
Whittenton Mfg. Co.,	Taunton, Mass.	1
Williamstown Mfg. Co.,	Williamstown, Mass.	14
Wilmington Cotton Mills,	Wilmington, N. C.	60
Woodruff Cotton Mills,	Woodruff, S. C.	810
Woodside Cotton Mills,	Greenville, S. C.	200
Wuskanut Mills,	Farnumsville, Mass.	200
York Mfg. Co.,	Saco, Maine.	1761

Total, 152,859



NO. 78. MARCH, 1909.

PRODUCT PER LOOM VS. PRODUCT PER WEAVER.

We are frequently asked by prospective customers what percentage of product we can guarantee on Northrop Looms. This leads up to the question of the real advantages of the Northrop Loom over the common loom.

We have claimed from the start and proven conclusively that our loom is a labor-saving device. In a broad way, **one-half the labor cost in a weaving mill with common looms is in the weave room; Northrop Looms, therefore, that can be operated with from one-quarter to one-half the number of weavers** are an advantage:

First, in direct saving of weavers' wages;

Second, in enabling mills to keep up production when there is a shortage of help;

Third, in capacity of being operated overtime in absence of weavers, and thus materially increasing the output; and

Fourth, in requiring less experienced weavers than common looms.

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During the year preceding the panic of 1907 and 1908, **there were thousands of looms standing idle** in both Northern and Southern mills **because operatives could**

not be obtained. With the return of prosperous conditions, this question of help will again become important, and other conditions being equal, the mills that employ the smallest number of operatives will possess a distinct advantage over those having antiquated machinery.

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On the subject of percentage of product per loom, we have quite an accumulation of records. One mill with a very large equipment of Northrop Looms reports **over 96 per cent.**; the weavers run 16 to 18 looms each, and the quality of the goods is the best of its class on the market.

Another mill with a large number of Northrop Looms **is saving about two-thirds the labor cost of weaving**, compared with the common looms replaced, and obtaining **95 to 97 per cent.** product without running overtime.

Another mill on sheetings operates 16 looms per weaver with **a little over 98 per cent. product**, averaged for a year.

While these results are most excellent, **an additional saving could be made by increasing the number of looms per weaver**, and slightly reducing the percentage of theoretical product.

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A notable instance of possibilities of the Northrop Loom is cited in report of one of our men a few weeks ago. He says:

“The weavers are running quite a good number of looms per weaver and many of them I noticed sitting down with their looms all running. **One weaver** in particular I

noticed **running 34 looms** on 38 1-2 in. 5.15 yd. goods, and though I watched this weaver for some time never saw at any time more than one loom stop and the greater part of the time **the whole 34 looms were running.**"

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In another case, we have a letter from a mill operating about 1000 Northrop Looms, which reads as follows:

"I send you a statement of my production and cost of supplies for the year 1908. **The average cost of all supplies** from files to belting **averages \$1.36 per loom. My average production for the year 1908 is 96 per cent.** Would be glad for you to compare my figures with other mills, and advise me as to whether or not I am out of date. If this should be worthy of note, I would like to see it in Cotton Chats. Our weavers run from 16 to 24 looms each, 4.00 to 5.75 yard goods. About one-half of the year the looms ran from one-half hour to one hour at noon."

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Another mill having about 500 looms, reports rising 21 looms per weaver and **product of 102.57 per cent.**, the looms being operated 15 hours overtime during the month on which these averages were based.

On very fine yarns where the bobbins do not run out so fast, a still greater gain can be made by running the looms over time. In one such case, **one-half the looms were in operation at 8 P. M. two hours after the weavers had gone home** and the product for the month was **over 104 per cent.**, based upon bell-time hours.

The following sub-division of the list of Northrop Looms to January 1st, will, we think, be of interest.

NUMBER OF NORTHROP LOOMS IN EACH STATE
IN THE UNITED STATES, INCLUDING ORDERS
TO JANUARY 1, 1909.

NEW ENGLAND STATES.

Connecticut	5,361
Maine	9,757
Massachusetts	23,058
New Hampshire	6,602
Rhode Island	9,529
Vermont	1,472
	55,779

MIDDLE AND WESTERN STATES.

Delaware	15
Illinois	96
Indiana	102
Missouri	934
New Jersey	2,229
New York	598
Pennsylvania	39
	4,013

SOUTHERN STATES.

Alabama	6,205
Georgia	14,943
Louisiana	714
Maryland	93
Mississippi	360
North Carolina	14,933
South Carolina	52,148
Tennessee	2,462
Texas	2
Virginia	1,207
	93,067

